

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/022784 A2

(51) International Patent Classification⁷: C12Q 1/68

(21) International Application Number:
PCT/SG2003/000209

(22) International Filing Date:
4 September 2003 (04.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/408,818 6 September 2002 (06.09.2002) US

(71) Applicant (for all designated States except US): JOHNS
HOPKINS SINGAPORE PTE LTD [SG/SG]; 41 Science
Park Road, #03-18 The Gemini, Lobby C, Singapore Sci-
ence Park II, Singapore 117610 (SG).

[SG/SG]; 103 Clementi Road, Blk A, #12-04, Kent Vale,
Singapore 129788 (SG). AUGUST, J., Thomas [US/US];
905 Poplar Hill Road, Baltimore, MD 21210 (US). TOO,
Heng-Phon [MY/SG]; 103 Clementi Road, Blk A, #12-04,
Kent Vale, Singapore 129788 (SG).

(74) Agent: ALBAN TAY MAHTANI & DE SILVA; 39
Robinson Road, #07-01 Robinson Point, Singapore
068911 (SG).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

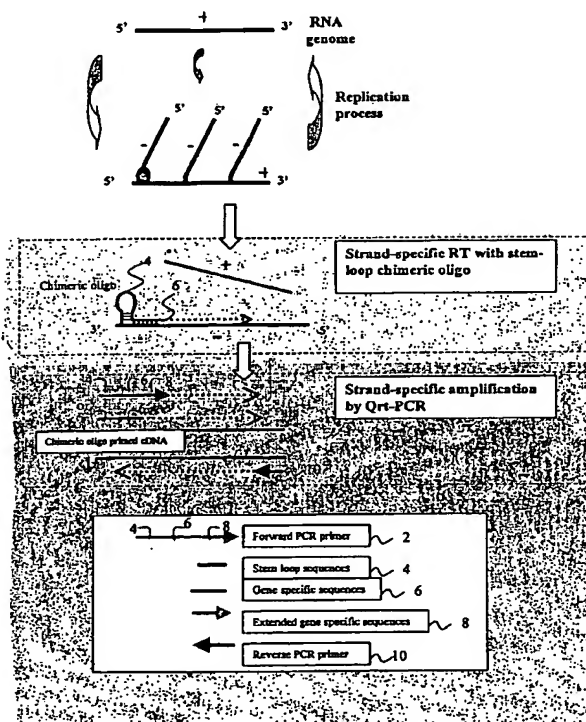
(72) Inventors; and

(75) Inventors/Applicants (for US only): ANWAR, Azlinda

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: STRAND SPECIFIC DETECTION AND QUANTIFICATION



(57) Abstract: An aspect of the present invention provides for specific compositions and methods of use make possible accurate, simple and efficient detection and quantification of desired nucleic acid strands. Teachings of the present invention also provide for novel and efficient primer design for annealing to specific target nucleic acid strands, as well as for designing particularly accurate amplification reaction primers for amplification of desired nucleic acid strands.

WO 2004/022784 A2